## **IN THE CLAIMS:**

Please cancel claims 35-143 without prejudice or disclaimer as to the subject matter recited therein.

- 1. (Original) A grid computing system, comprising:
  - a master node configured to manage a grid comprising one or more compute nodes;

a node configured to:

discover the master node in accordance with one or more peer-to-peer platform protocols; and

send the discovered master node information about the node in accordance with the one or more peer-to-peer platform protocols;

wherein the master node is further configured to send grid configuration information to the node in accordance with the one or more peer-to-peer platform protocols; and

wherein the node is further configured to self-configure as a compute node in the grid in accordance with the grid configuration information.

- 2. (Original) The grid computing system as recited in claim 1, wherein the node comprises a bootstrapping mechanism configured to discover the master node and to send the discovered master node information about the node in accordance with the one or more peer-to-peer platform protocols at startup of the node.
- 3. (Original) The grid computing system as recited in claim 1, wherein the node was previously configured as a compute node, and wherein, to self-configure as a compute

node in the grid in accordance with the grid configuration information, the node is further configured to update configuration of the node as a compute node in accordance with the grid configuration information.

- 4. (Original) The grid computing system as recited in claim 1,
  - wherein the information about the node includes compute node configuration information for the node;
  - wherein the master node is further configured to determine from the compute node configuration information that the compute node configuration needs to be updated; and
  - wherein the grid configuration information sent to the node includes update information for the compute node configuration.
- 5. (Original) The grid computing system as recited in claim 1, wherein the node is further configured to send the master node notification that the node is leaving the grid in accordance with the one or more peer-to-peer platform protocols.
- 6. (Original) The grid computing system as recited in claim 1, wherein the master node is further configured to:
  - submit a job to the node for execution in accordance with the one or more peer-topeer platform protocols;
  - detect that the node is no longer participating as a compute node in the grid in accordance with the one or more peer-to-peer platform protocols; and
  - resubmit the job to another compute node of the grid for execution in accordance with the one or more peer-to-peer platform protocols.

7. (Original) The grid computing system as recited in claim 1, wherein the grid computing system further comprises a job submitter node, and wherein the master node is further configured to:

receive a job from the job submitter node in accordance with the one or more peer-to-peer platform protocols;

distribute the job to the compute node for execution in accordance with the one or more peer-to-peer platform protocols;

receive results of the execution from the compute node in accordance with the one or more peer-to-peer platform protocols; and

send the results to the job submitter node in accordance with the one or more peer-to-peer platform protocols.

- 8. (Original) The grid computing system as recited in claim 1, wherein the grid computing system is configured according to Sun Cluster Grid architecture.
- 9. (Original) The grid computing system as recited in claim 1, wherein the peer-topeer platform protocols are JXTA protocols.
- 10. (Original) A grid computing system, comprising:
  - a plurality of nodes; and
  - a master node configured to communicate with the one or more nodes in accordance with one or more peer-to-peer platform protocols to:

configure the nodes to participate as compute nodes in a grid computing system; and

submit jobs to the compute nodes for execution.

11. (Original) The grid computing system as recited in claim 10, further comprising one or more job submitter nodes, wherein the master node is further configured to:

receive the jobs from the job submitter nodes in accordance with the one or more peer-to-peer platform protocols;

receive results of the execution of the jobs from the compute nodes in accordance with the one or more peer-to-peer platform protocols; and

send the results to the job submitter nodes in accordance with the one or more peer-to-peer platform protocols.

- 12. (Original) The grid computing system as recited in claim 10, wherein the grid computing system is configured according to Sun Cluster Grid architecture.
- 13. (Original) The grid computing system as recited in claim 10, wherein the peer-topeer platform protocols are JXTA protocols.
- 14. (Original) A system, comprising:

a processor; and

a memory comprising program instructions, wherein the program instructions are executable by the processor to:

discover a master node in accordance with one or more peer-to-peer platform protocols, wherein the master node is configured to manage a grid comprising one or more compute nodes;

send the discovered master node information about the node in accordance with the one or more peer-to-peer platform protocols;

receive grid configuration information from the master node in accordance with the one or more peer-to-peer platform protocols; and

self-configure as a compute node in the grid in accordance with the grid configuration information.

- 15. (Original) The system as recited in claim 14, wherein the program instructions are executable by the processor to implement a bootstrapping mechanism configured to discover the master node and to send the discovered master node information about the node in accordance with the one or more peer-to-peer platform protocols at startup of the node.
- 16. (Original) The system as recited in claim 14, wherein the grid is configured according to Sun Cluster Grid architecture.
- 17. (Original) The grid computing system as recited in claim 14, wherein the peer-to-peer platform protocols are JXTA protocols.
- 18. (Original) A grid computing system, comprising:

means for discovering a master node, wherein the master node is configured to manage a grid comprising one or more compute nodes;

means for obtaining grid configuration information from the master node; and means for configuring as a compute node in the grid in accordance with the grid configuration information.

## 19. (Original) A method, comprising:

a node discovering a master node in accordance with one or more peer-to-peer platform protocols, wherein the master node is configured to manage a grid comprising one or more compute nodes;

the node sending the discovered master node information about the node in accordance with the one or more peer-to-peer platform protocols;

the master node sending grid configuration information to the node in accordance with the one or more peer-to-peer platform protocols; and

the node self-configuring as a compute node in the grid in accordance with the grid configuration information.

- 20. (Original) The method as recited in claim 19, wherein the node was previously configured as a compute node, and wherein said self-configuring as a compute node in the grid comprises updating configuration of the node as a compute node in accordance with the grid configuration information.
- 21. (Original) The method as recited in claim 19, wherein the information about the node includes compute node configuration information for the node, the method further comprises:

the master node determining that the compute node configuration needs to be

## updated from the compute node configuration information; and

- the master node including update information for the compute node configuration in the grid configuration information sent to the node in response to said determining that the compute node configuration needs to be updated.
- 22. (Original) The method as recited in claim 19, further comprising the node sending the master node notification that the node is leaving the grid in accordance with the one or more peer-to-peer platform protocols.
- 23. (Original) The method as recited in claim 22, further comprising:
  - the master node submitting a job to the node for execution in accordance with the one or more peer-to-peer platform protocols;
  - the master node detecting that the node is no longer participating as a compute node in the grid in accordance with the one or more peer-to-peer platform protocols; and
  - the master node resubmitting the job to another compute node of the grid for execution in accordance with the one or more peer-to-peer platform protocols.
- 24. (Original) The method as recited in claim 19, further comprising:
  - the master node receiving a job from a job submitter node in accordance with the one or more peer-to-peer platform protocols;
  - the master node distributing the job to the compute node for execution in accordance with the one or more peer-to-peer platform protocols;

- the master node receiving results of the execution from the compute node in accordance with the one or more peer-to-peer platform protocols; and
- the master node sending the results to the job submitter node in accordance with the one or more peer-to-peer platform protocols.
- 25. (Original) The method as recited in claim 19, wherein the grid is configured according to Sun Cluster Grid architecture.
- 26. (Original) The method as recited in claim 19, wherein the peer-to-peer platform protocols are JXTA protocols.
- 27. (Original) A computer-accessible medium comprising program instructions, wherein the program instructions are configured to implement:
  - a node discovering a master node in accordance with one or more peer-to-peer platform protocols, wherein the master node is configured to manage a grid comprising one or more compute nodes;
  - the node sending the discovered master node information about the node in accordance with the one or more peer-to-peer platform protocols;
  - the master node sending grid configuration information to the node in accordance with the one or more peer-to-peer platform protocols; and
  - the node self-configuring as a compute node in the grid in accordance with the grid configuration information.
- 28. (Original) The computer-accessible medium as recited in claim 27, wherein the node was previously configured as a compute node, and wherein, in said self-configuring

as a compute node in the grid, the program instructions are further configured to implement updating configuration of the node as a compute node in accordance with the grid configuration information.

29. (Original) The computer-accessible medium as recited in claim 27, wherein the information about the node includes compute node configuration information for the node, and wherein the program instructions are further configured to implement:

the master node determining that the compute node configuration needs to be updated from the compute node configuration information; and

the master node including update information for the compute node configuration in the grid configuration information sent to the node in response to said determining that the compute node configuration needs to be updated.

- 30. (Original) The computer-accessible medium as recited in claim 27, wherein the program instructions are further configured to implement the node sending the master node notification that the node is leaving the grid in accordance with the one or more peer-to-peer platform protocols.
- 31. (Original) The computer-accessible medium as recited in claim 30, wherein the program instructions are further configured to implement:

the master node submitting a job to the node for execution in accordance with the one or more peer-to-peer platform protocols;

the master node detecting that the node is no longer participating as a compute node in the grid in accordance with the one or more peer-to-peer platform protocols; and

the master node resubmitting the job to another compute node of the grid for

execution in accordance with the one or more peer-to-peer platform protocols.

32. (Original) The computer-accessible medium as recited in claim 27, wherein the program instructions are further configured to implement:

the master node receiving a job from a job submitter node in accordance with the one or more peer-to-peer platform protocols;

the master node distributing the job to the compute node for execution in accordance with the one or more peer-to-peer platform protocols;

the master node receiving results of the execution from the compute node in accordance with the one or more peer-to-peer platform protocols; and

the master node sending the results to the job submitter node in accordance with the one or more peer-to-peer platform protocols.

- 33. (Original) The computer-accessible medium as recited in claim 27, wherein the grid is configured according to Sun Cluster Grid architecture.
- 34. (Original) The computer-accessible medium as recited in claim 27, wherein the peer-to-peer platform protocols are JXTA protocols.

Claims 35-143 (cancelled)